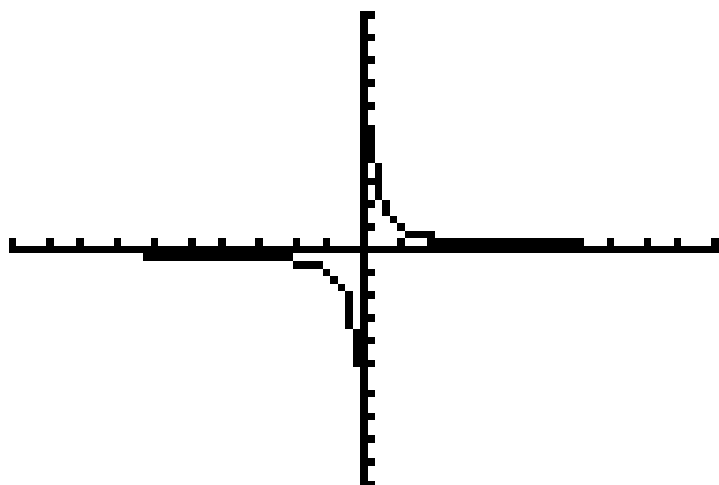


	Plot1	Plot2	Plot3
\Y1	= 1/X		
\Y2	=		
\Y3	=		
\Y4	=		
\Y5	=		
\Y6	=		
\Y7	=		



$$y = \frac{1}{x} \quad \begin{array}{l} \text{V.A. } x\text{-axis} \\ \text{V.A. } x\text{-axis} \end{array}$$

$$1.) \quad y = \frac{1}{x+1} \quad \begin{array}{l} \text{V.A. } x = -1 \\ \text{V.A. } x = -1 \\ \text{V.A. } x = -1 \end{array}$$

$$2.) \quad y = \frac{x-3}{x^2-9} \quad \begin{array}{l} \text{V.A. } x = -3 \\ \text{V.A. } x = -3 \\ \text{V.A. } x = -3 \end{array}$$

$$3.) \quad y = \frac{2x^2+5x+3}{x^2-1} \quad \begin{array}{l} \text{V.A. } x = 1, \\ \text{H.A. } y = 2 \end{array}$$

$$4.) \quad xy - y - 2x + 1 = 0$$

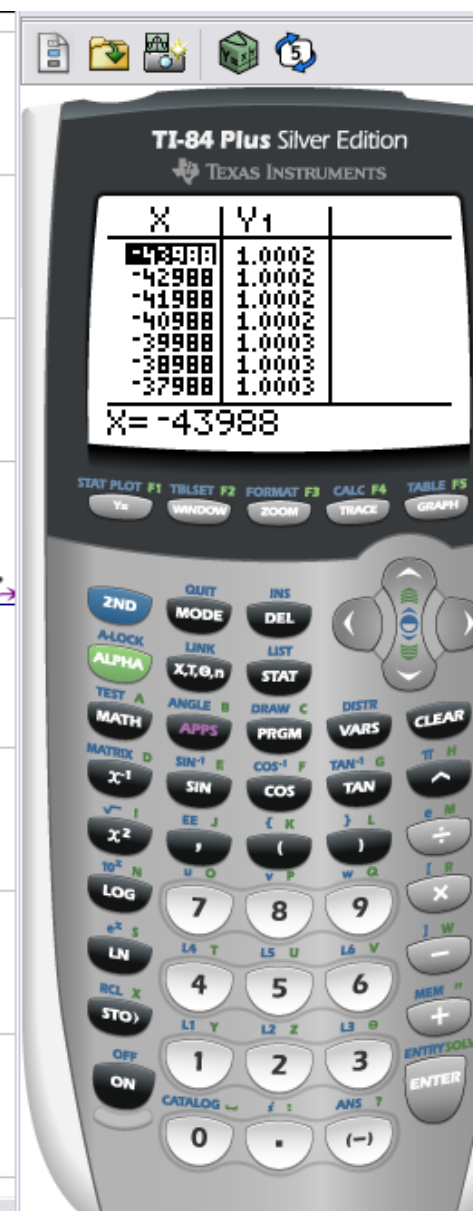
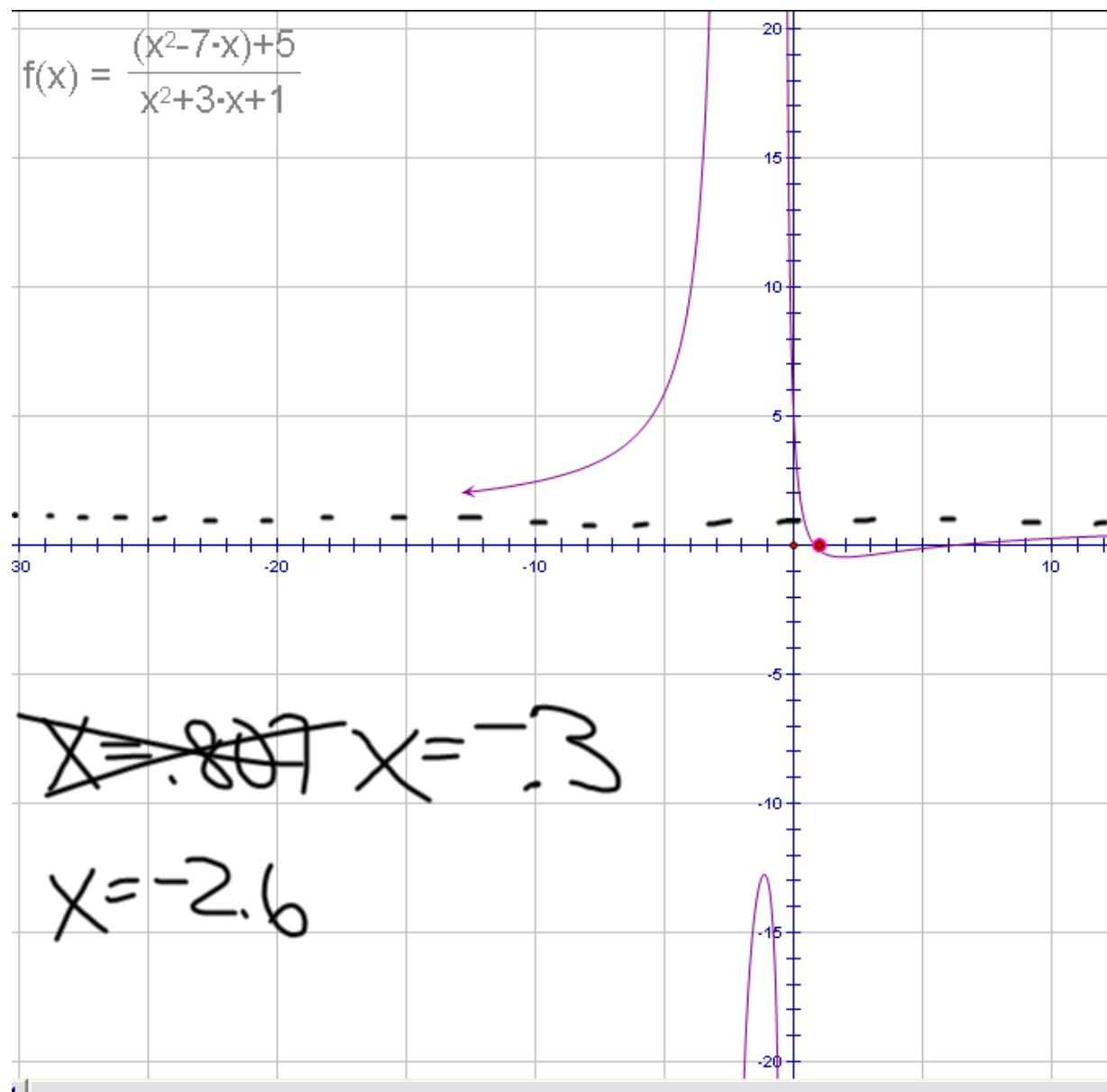
$$xy - y = 2x - 1$$

$$y(x-1) = 2x-1$$

$$y = \frac{2x-1}{x-1} \quad \text{V.A. } x = 1$$

$$\text{H.A. } y = 2$$

$$y = \frac{x^2 - 7x + 5}{x^2 + 3x + 1}$$



Vertical Asymptotes \rightarrow When the denominator is zero,

unless you can cancel out...

$$y = \tan x = \frac{\sin x}{\cos x}$$

$$y = \csc x = \frac{1}{\sin x}$$

$$y = \cot x = \frac{\cos x}{\sin x}$$

$$y = \sec x = \frac{1}{\cos x}$$

Horizontal
Asymptotes →

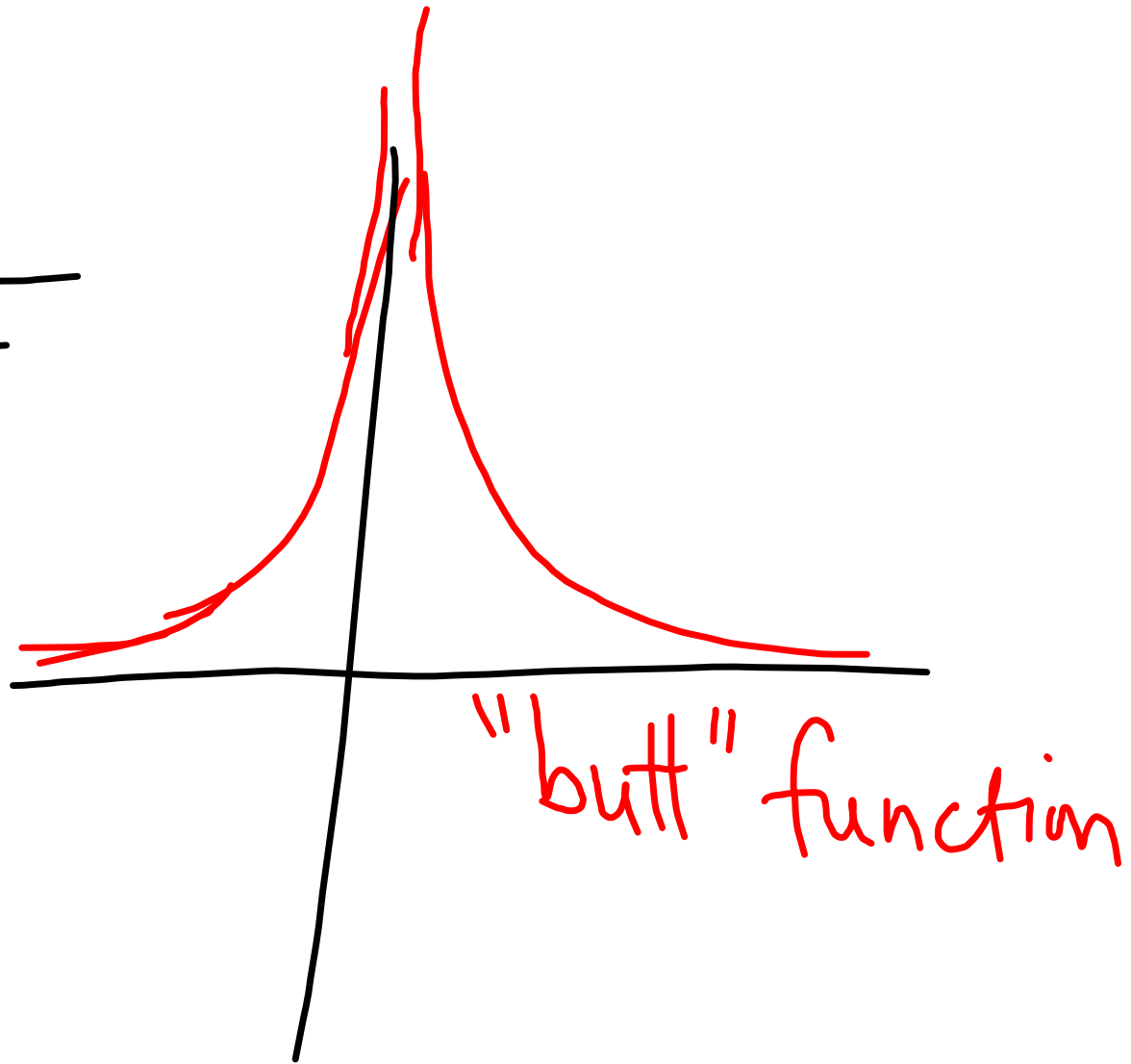
$$y = \frac{1}{x}$$
$$x = \frac{1}{y}$$

$$\textcircled{4} \quad Y = \frac{X^2 - 5X + 6}{X - 2}$$

lines

$$\textcircled{7} \quad Y = \frac{X^2 + 5X}{X}$$

$$y = \frac{1}{x^2}$$



$$y = \frac{3x}{x-5}$$